

Name _____ Date _____ Period _____

NGA Review (Algebra 1-2)

Scenario

You have to decide which of two gyms to join.

- The first club, “Bye Bye Cellulite,” charges a one-time enrollment fee of \$400 to join plus a monthly membership fee of \$40.
- The second club, “Pump You Up,” charges a one-time enrollment fee of \$600 to join plus a monthly fee of \$35.

#1

Create a table to show the cost of being a member for at least a year at “Bye Bye Cellulite”.

Month Number (x)	Total Cost
1	$400 + \underline{\hspace{2cm}} \cdot 1 = \underline{\hspace{2cm}}$
2	$400 + \underline{\hspace{2cm}} \cdot 2 = \underline{\hspace{2cm}}$
3	$400 + \underline{\hspace{2cm}} \cdot 3 = \underline{\hspace{2cm}}$

#2

Create a table to show the cost of being a member for at least a year at “Pump You Up”.

[illegible]

#3

Write two equations to represent the price of being a member at "Bye Bye Cellulite" and "Pump You Up" in terms of the number of months for which you have been a member (be sure to define your variables).

Variables (be specific):

Bye Bye Cellulite

Equation:

Pump You Up

Equation:

#4

At what month will the price of being a member of "Bye Bye Cellulite" and "Pump You Up" be the same? What will the cost be at that month? (There is exactly one month where this happens).

Month: _____

Cost: _____

#5 Reasoning Response

Jose wants to be a member at "Pump You Up" for four years. Since he knew the cost for one year is \$1,020, he figured four years would cost
 $\$1,020 \times 4 = \$4,080$.

This is incorrect.

a) In complete sentences, explain the error(s) in his thinking.

b) Find the correct cost for a four year membership. Be sure to show all steps.

Answer: _____

#6 Compare and Contrast Response

Shakira is going on tour and looking to get in shape for her shows. Which gym should she join? Explain your reasoning in two or more complete sentences.
